AMENDMENTS TO THE CLAIMS

This listing of claim will replace all prior versions and listings of claim in the

application.

1. (currently amended) A method for reading non-volatile memory arranged in

columns and rows, comprising the steps of:

selecting a word-line WLn to be read;

reading an adjacent word line (WLn+1) written after word line WLn;

determining whether the adjacent word line a threshold voltage greater than a check

voltage; and

if the data state of the adjacent word line is above a check voltage, reading the a

selected bit in word line WLn by selectively adjusting at least one read parameter.

2. (original) The method of claim 1 wherein the read parameter is the sense

voltage.

3. (original) The method of claim 2 wherein the step of reading the bit includes

increasing the sense voltage.

4. (original) The method of claim 3 wherein the step of increasing the sense

voltage includes increasing the sense voltage by an amount equal to a fraction of the

maximum coupling effect of the adjacent bit on the selected bit.

5. (original) The method of claim 4 wherein the fraction is one-half.

6. (currently amended) The method of claim 1 wherein the read parameter is the

<u>a</u> pre-charge voltage.

7. (currently amended) The method of claim <u>6</u> [[1]] wherein the step of reading

the bit includes decreasing the pre-charge voltage.

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8. (original) The method of claim 7 wherein the step of decreasing the pre-

charge voltage includes decreasing the sense voltage by an amount equal to a fraction of the

maximum coupling effect of the adjacent bit on the selected bit.

9. (original) The method of claim 1 wherein the method includes the step,

following the step of reading an adjacent word line, of determining whether a bit in word line

WLn+1 adjacent to the selected bit has a threshold voltage above a check voltage.

10. (original) The method of claim 9 wherein said step of reading the selected bit

occurs only if said bit in word line WLn+1 is greater than the check voltage.

11. (original) The method of claim 10 wherein the check voltage is one half of the

voltage threshold distribution.

12. (original) The method of claim 1 wherein the bits hold a multi-state memory,

the step of reading an adjacent word line includes determining the threshold voltage state of

the bit.

13. (original) The method of claim 12 wherein the step of reading includes

reading the bit at least three times.

14. (original) The method of claim 13 wherein the step of reading the selected bit

includes decreasing the sense voltage by an amount equal to the coupling effect of the

adjacent bit on the selected bit.

15. (original) The method of claim 13 wherein the step of reading the selected bit

includes increasing the pre-charge voltage by an amount equal to the coupling effect of the

adjacent bit on the selected bit.

16. (original) The method of claim 1 wherein said at least one read parameter

includes both the pre-charge voltage and the sense voltage.

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17. (currently amended) A method for reading non-volatile memory arranged in

columns and rows, comprising the steps of:

determining a selected bit to be read in a first word-line;

reading an adjacent word line written after the first word line;

determining whether a bit adjacent to the selected bit has a threshold voltage greater

than a check voltage value; and

if the adjacent selected bit has a threshold voltage greater than the check value,

reading the selected bit in said first word line by selectively adjusting at least one read

parameter.

18. (original) The method of claim 17 wherein the read parameter is the sense

voltage.

19. (currently amended) The method of claim 18 wherein the step of reading the

selected bit includes increasing the sense voltage.

20. (original) The method of claim 19 wherein the step of increasing the sense

voltage includes increasing the sense voltage by an amount equal to one-half of the maximum

coupling effect of the adjacent bit on the selected bit.

21. (currently amended) The method of claim 18 [[17]] wherein the read

parameter is the th pre-charge voltage.

22. (currently amended) The method of claim claim 21 [[17]] wherein the step of

reading the selected bit includes decreasing the pre-charge voltage.

23. (original) The method of claim 22 wherein the step of decreasing the pre-

charge voltage includes decreasing the sense voltage by an amount equal to one-half of the

maximum coupling effect of the adjacent bit on the selected bit.

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24. (original) The method of claim 17 wherein the check voltage is one half of the

voltage threshold distribution of a multi-state cell array.

25. (currently amended) A memory system including code enabling reading data

from the system, comprising:

an array of multi-state memory cells arranged in rows and columns;

a controller executing said code, the code performing the steps of:

determining a selected bit to be read in a first row-line;

reading an adjacent row line written after the first row line;

determining whether a bit adjacent to the selected bit has a threshold voltage greater

than a check voltage value; and

if the adjacent selected bit has a threshold voltage greater than the check value,

reading the selected bit in the first row line by selectively adjusting at least one read

parameter.

26. (currently amended) The specific of claim 25 wherein the read

parameter is the sense voltage.

27. (currently amended) The mothod-system of claim 26 wherein the step of

reading the selected bit includes increasing the sense voltage.

28. (currently amended) The method-system of claim 25 wherein the read

parameter is the pre-charge voltage.

29. (currently amended) The method-system of claim 28 [[25]] wherein the step

of reading the <u>selected</u> bit includes decreasing the pre-charge voltage.

30. (currently amended) The specified system of claim 25 wherein the step of

reading the selected bit includes adjusting both a the pre-charge voltage and a the sense

voltage.

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- 31. (currently amended) The worked system of claim 25 wherein the check voltage is one half of a the voltage threshold distribution of a multi-state cell array.
 - 32. (currently amended) An apparatus, comprising:
 means for determining a selected bit to be read in a first word-line;
 means for reading an adjacent word line written after the first word line;

means for determining whether a bit adjacent to the selected bit has a threshold voltage greater than a check value; and

means for reading the selected bit in the first word line by selectively adjusting at least one read parameter if the adjacent selected bit has a threshold voltage greater than the check value.